WEB ACCESS: http://www.yorkville.com

SERVICE MANUAL

MODEL TYPE: YS1064

TRAYNOR YCS50H

WORLD HEADQUARTERS
CANADA

Yorkville Sound
550 Granite Court
Pickering, Ontario
L1W-3Y8 CANADA

Voice: (905) 837-8481
Fax: (905) 837-8746

U.S.A.

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

Voice: (716) 297-2920
Fax: (716) 297-3689

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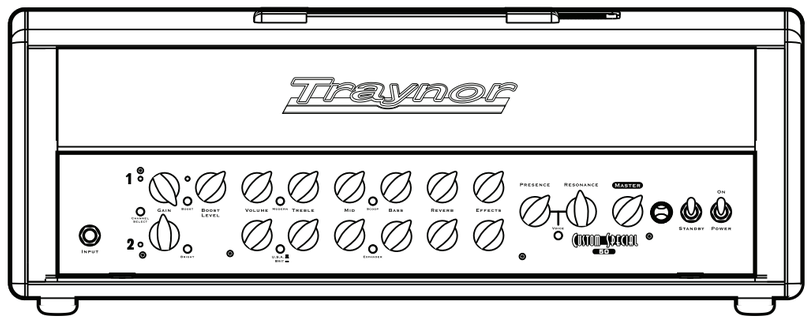


IMPORTANT SAFETY INSTRUCTIONS

This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Ce symbole d'éclair avec tête de flèche dans un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'un « voltage dangereux » non-isolé à proximité de l'enceinte du produit qui pourrait être d'ampleur suffisante pour présenter un risque de choque électrique.

CAUTION *AVIS*

RISK OF ELECTRIC SHOCK DO NOT OPEN

RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

The exclamation point within an equilatereal triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est prévu pour alerter l'utilisateur de la présence d'instructions importantes dans la littérature accompagnant l'appareil en ce qui concerne l'opération et la maintenance de cet appareil.

S2125A

FOLLOW ALL INSTRUCTIONS

Instructions pertaining to a risk of fire, electric shock, or injury to a person

***CAUTION*: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).**

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS DEVICE IS FOR INDOOR USE ONLY!

Read Instructions: The Owner's Manual should be read and understood before operation of your unit. Please, save these instructions for future reference and heed all warnings.

Clean only with dry cloth.

Packaging: Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning: To reduce the risk or fire or electric shock, do not expose this apparatus to rain or moisture. *Do not use this apparatus near water!*

Warning: When using electric products, basic precautions should always be followed, including the following:

Power Sources

Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing ground. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Hazards

Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

Ensure that proper ventilation is provided around the appliance. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. The AC supply cord should be routed so that it is unlikely that it will be damaged. Protect the power cord from being walked on or pinched particularly at plugs. If the AC supply cord is damaged DO NOT OPERATE THE UNIT. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. The mains plug of the power supply cord shall remain readily operable.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Service

The unit should be serviced only by qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

SUIVEZ TOUTES LES INSTRUCTIONS

Instructions relatives au risque de feu, choc électrique, ou blessures aux personnes

***AVIS:* AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)**

NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT

CE PRODUIT EST POUR L'USAGE À L'INTÉREUR SEULEMENT

Veuillez Lire le Manuel: Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez. Gardez S.V.P. ces instructions pour consultations ultérieures et observez tous les avertissements.

Nettoyez seulement avec le tissu sec.

Emballage: Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

Avertissement: Pour réduire le risque de feu ou la décharge électrique, n'exposez pas cet appareil à la pluie ou à l'humidité. *N'utilisez pas cet appareil près de l'eau!*

Attention: Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation

L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé. Un appareil construit selon les normes de CLASS I devrait être raccordé à une prise murale d'alimentation avec connexion intacte de mise à la masse. Lorsqu'une prise de branchement ou un coupleur d'appareils est utilisée comme dispositif de débranchement, ce dispositif de débranchement devra demeurer pleinement fonctionnel avec raccordement à la masse.

Risque

Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant. Utilisez seulement les attachements/accessoires indiqués par le fabricant

Note: L'utilisation prolongée des écouteurs à un volume élevé peut avoir des conséquences néfastes sur la santé sur vos oreilles. .

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appeil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Assurez que lappareil est fourni de la propre ventilation. Ne procédez pas à l'installation près de source de chaleur tels que radiateurs, registre de chaleur, fours ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation

Ne pas enlever le dispositif de sécurité sur la prise polarisée ou la prise avec tige de mise à la masse du cordon d'alimentation. Une prise polarisée dispose de deux lames dont une plus large que l'autre. Une prise avec tige de mise à la masse dispose de deux lames en plus d'une troisième tige qui connecte à la masse. La lame plus large ou la tige de mise à la masse est prévu pour votre sécurité. La prise murale est désuète si elle n'est pas conçue pour accepter ce type de prise avec dispositif de sécurité. Dans ce cas, contactez un électricien pour faire remplacer la prise murale. Évitez d'endommager le cordon d'alimentation. Protégez le cordon d'alimentation. Assurez-vous qu'on ne marche pas dessus et qu'on ne le pince pas en particulier aux prises. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé. Pour débrancher complètement cet appareil de l'alimentation CA principale, déconnectez le cordon d'alimentation de la prise d'alimentation murale. Le cordon d'alimentation du bloc d'alimentation de l'appareil doit demeurer pleinement fonctionnel.

Débranchez cet appareil durant les orages ou si inutilisé pendant de longues périodes.

Service

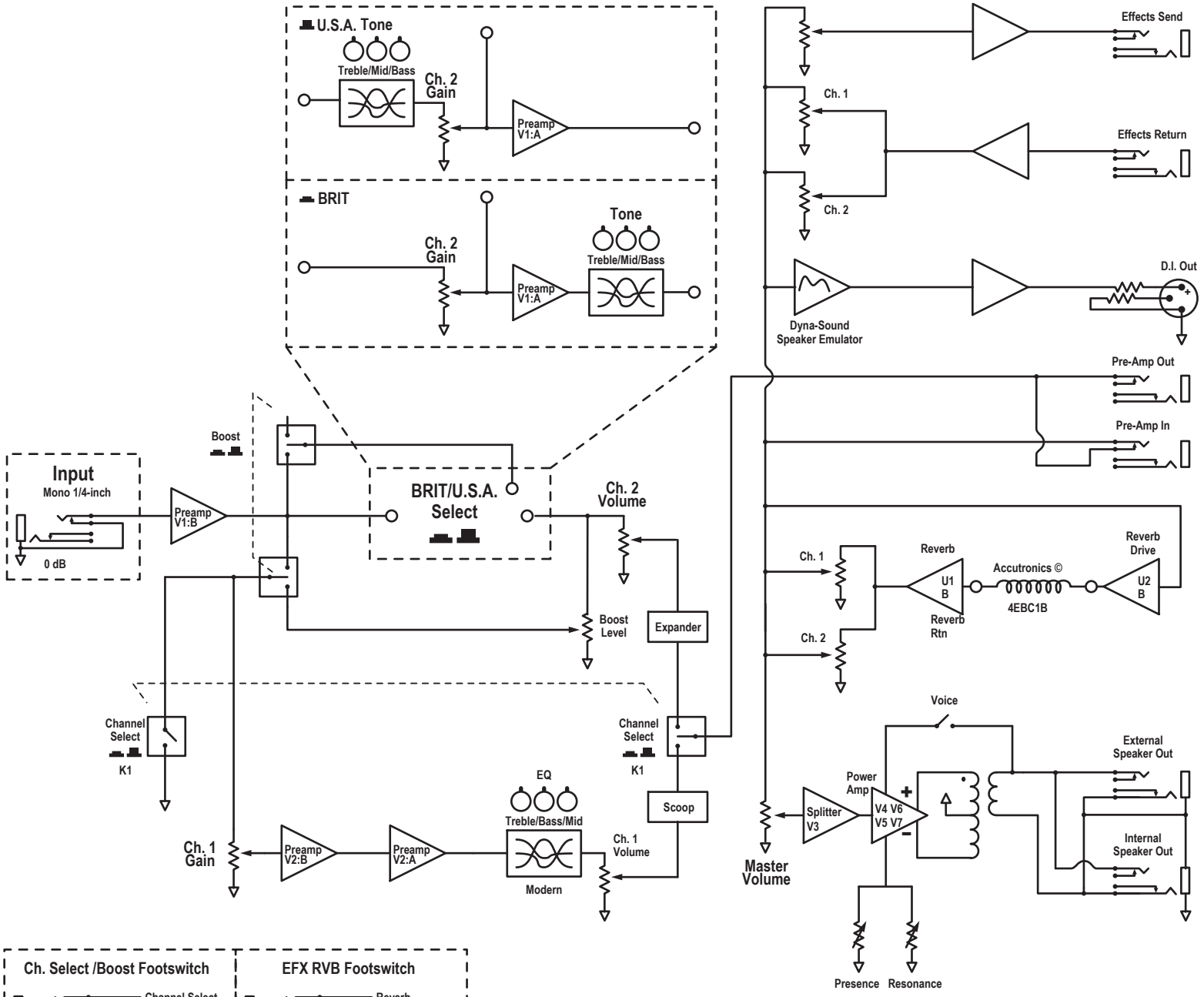
Consultez un technicien qualifié pour l'entretien de votre appareil. L'entretien est nécessaire quand l'appareil a été endommagé de quelque façon que se soit. Par exemple si le cordon d'alimentation ou la prise du cordon sont endommagés, si il y a eu du liquide qui a été renversé à l'intérieur ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, si il ne fonctionne pas normalement, ou a été échappé.

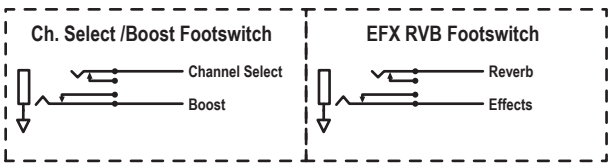
Specifications	
Model:	YCS50 / YCS50H / YCS90
Type:	Combo / Head / Combo Guitar Amplifiers
Cabinet Impedance (ohms):	8 / na / 8
Power @ min. impedance (Watts):	50 / 50 / 90
Minimum Impedance (ohms):	4 ohms on all models
Burst Power - 2 cycle:	60 / 60 / 110
Speaker Configuration - LF (Size / Power):	1 12-inch 60 watts / n.a. / 2 12-inch 120 watts
Input Channels:	1
Channel 1 - inputs:	1-1/4-inch shared with channel 2
Channel 1 - controls:	Gain, Boost Level, Volume, Treble, Mid, Bass, Reverb, Effects Return
Channel 1 - switches:	Boost, Modern, Scoop
Channel 2 - inputs:	1-1/4-inch shared with channel 1
Channel 2 - controls:	Gain, Volume, Treble, Mid, Bass, Reverb, Effects Return
Channel 2 - switches:	Bright, USA/Brit, Expander
Channel Switching:	2 Channels, Boost on Channel 1, Footswitchable
Master Volume Control:	Yes
Main Tone Controls:	Presence, Resonance, Voice
Master Outputs:	Preamp Out (TRS), D.I. Out (XLR), Effects Send with Control (TRS)
Line Out (type / configuration):	Preamp Out (TRS), D.I. Out (XLR), Effects Send with Control (TRS)
Line Out Sensitivity (Vrms):	300 mV
Effects Volume:	Master send, dual returns
Effects Loop / Location:	Rear
Effects Footswitch / Function:	Reverb and Effects Return Footswitchable
Effects Return Sensitivity (Vrms):	300 mV
Internal Reverb / Effects:	Accutronics Dual Spring Long Tank
LED Indicators:	Ch1, Ch2, Boost, Power/Standby
Protection:	Mains Fuse
External speaker output / location:	1 (rear panel)
Other Features:	Class A low power mode 15/15/25 Watts
Dimensions (DWH, inches):	10.5x25x21.5 / 10x27x11 / 10.5x27.5x21.5
Dimensions (DWH, cm):	27x64x55 / 25x69x28 / 27x70x55
Weight (lbs / kg):	48lbs./22kg / 38lbs./17kg / 51lbs./23kg

MODEL TYPE: YS1064 MODEL TYPE: YS1067

Block Diagram for YCS50/50H/YCS90

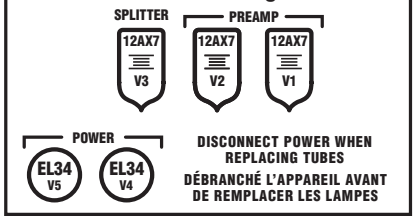
DESIGNED AND MANUFACTURED BY YORKVILLE SOUND





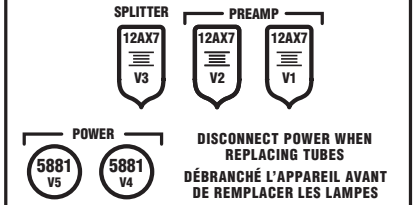
YCS50H

YCS50H Tube Configuration

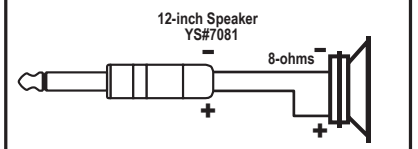


YCS50

YCS50 Tube Configuration

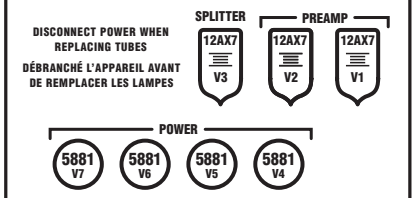


YCS50 Speaker Configuration

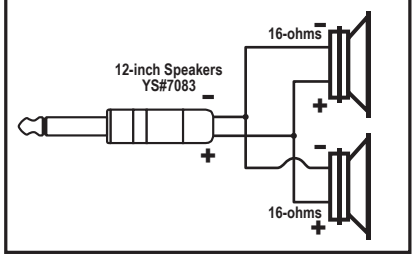


YCS90

YCS90 Tube Configuration



YCS90 Speaker Configuration



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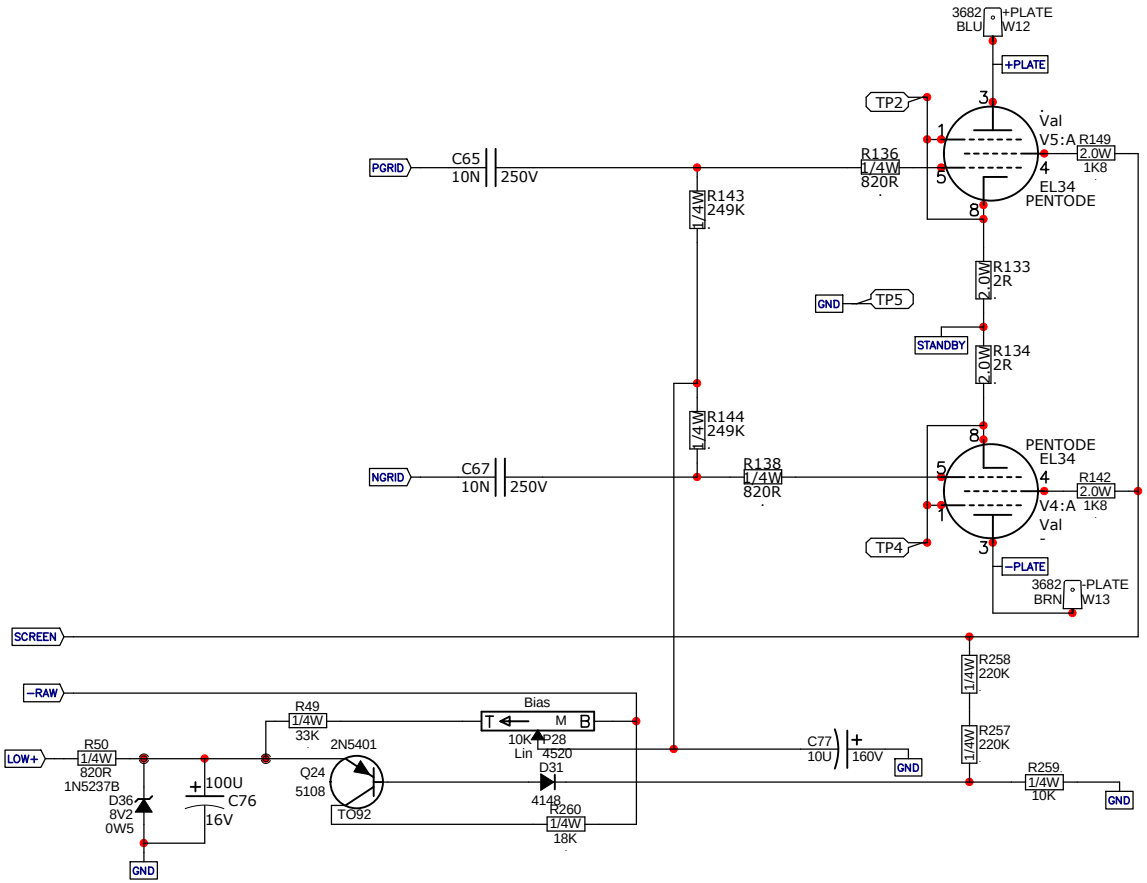
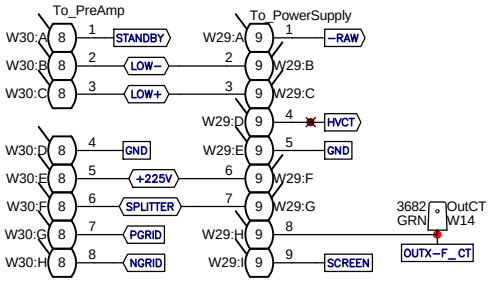
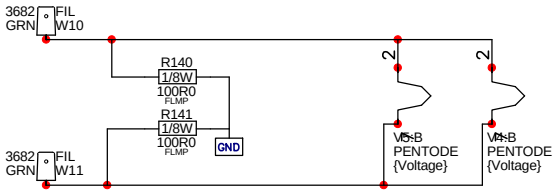




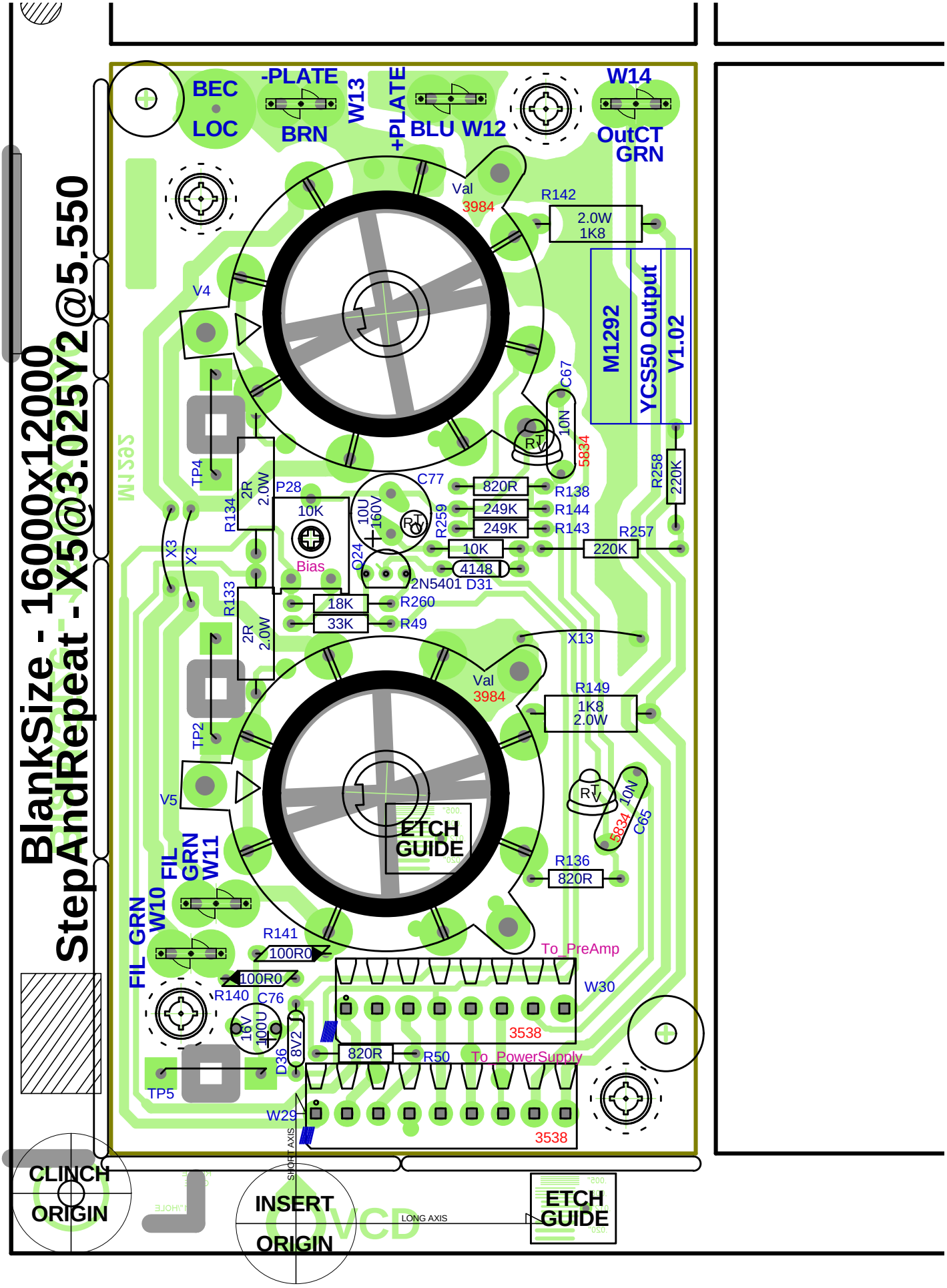


M1292.PCB_DATABASE_HISTORY			
MODEL(S):-	YCS50 Output		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	19-JUN-2007	1.00	FIRST DESIGN
2	11-FEB-2008	1.01	REVISION PER PC7456
3	14-APR-2008	1.02	CHANGE VALUE OF R49 TO 33K PER PC7535
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

Yorkville

Product **YCS50 Output**

Power Amp	PCB# M1292	Sheet 1 of 2
Date: Mon Apr 14, 2008	Rev: 1V02	YsType: .
Filename: M1292V102sch.sch2002		



SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

PRODUCTION NOTES

APPLY RTV TO C65 AND C67.

M1292.PCB_DATABASE_HISTORY			
MODEL(S):-	YCS50 Output		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	19-JUN-2007	1.00	FIRST DESIGN
2	11-FEB-2008	1.01	REVISION PER PC7456
3	14-APR-2008	1.02	CHANGED VALUE OF R49 TO 33K PER PC7535
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

Input Stage

CLN/BOOST AMPLIFIER

Preamp Headers

OD Stage

Product	YCS50H Preamp
Gain/EQ	PCB# M1293 — Sheet 1 of 4
Date: Thu May 24, 2012	Rev:v1.00 — YsType:
Filename: M1293V04SCH.sch2006	

Shortbridge between
IG and GND
on P1
as per PC7865

Splitter

These parts are not stuffed.

Product **YCS50H Preamp**		
Effects/Master	PCB# M1293	Sheet 2 of 4
Date: Thu May 24, 2012	Rev: v1.00	YsType:
Filename: M1293V04SCH.sch2006		

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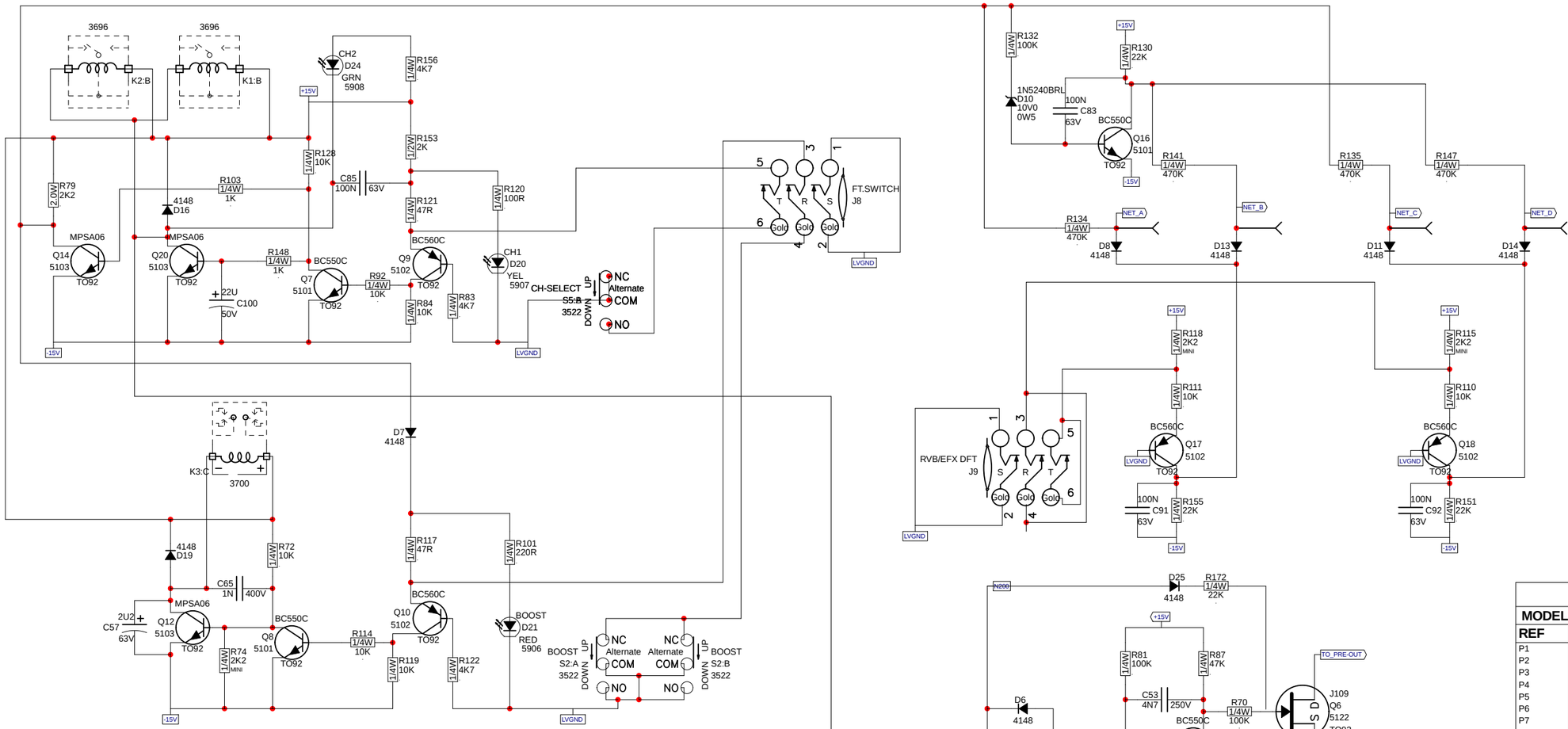


M1293 POTLIST

MODEL(S):- YCS50H

REF	FUNCTION	PART#	KNOB	{NEW}
P1	SEND LEVEL	4417	8431	N
P2	OD GAIN	4425	8431	N
P3	BOOST LEVEL	4425	8431	N
P4	OD VOLUME	4425	8431	N
P5	TREBLE	4424	8431	N
P6	MID	4423	8431	N
P7	BASS	4425	8431	N
P8	REVERB1	4423	8431	N
P9	FX RET 1	4423	8431	N
P10	PRESENCE	4423	8431	N
P11	RESONANCE	4425	8431	N
P12	MASTER VOLUME	4423	8431	N
P13	CL GAIN	4425	8431	N
P14	CL VOLUME	4425	8431	N
P15	TREBLE	4424	8431	N
P16	MID	4423	8431	N
P17	BASS	4425	8431	N
P18	REVERB2	4423	8431	N
P19	FX RET 2	4423	8431	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N
R	F	P	K	N

M1293 PCB_DATABASE_HISTORY

MODEL(S):- YCS50H

#	DATE	VER#	DESCRIPTION OF CHANGE
1	11/APR/2008	1.00	RELEASED FOR PRODUCTION
2	2008/04/30	2.00	PC#7535 & flipped standby switch.
3	23-SEP-2009	.	PC7865: changes according to PC
4	24-MAY-2012	.	PC8405 - Changed resistor values. - ML
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63

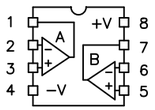
E B C
TO-92

BC550C
BC560C

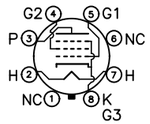
C B E
TO-92

J109
2N5638

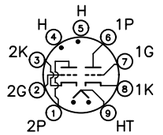
D S G
TO-92



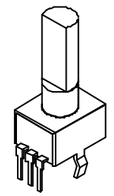
6882_PC



EL34



12AX7A



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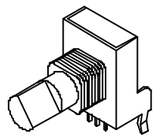

"STYLE_P28"

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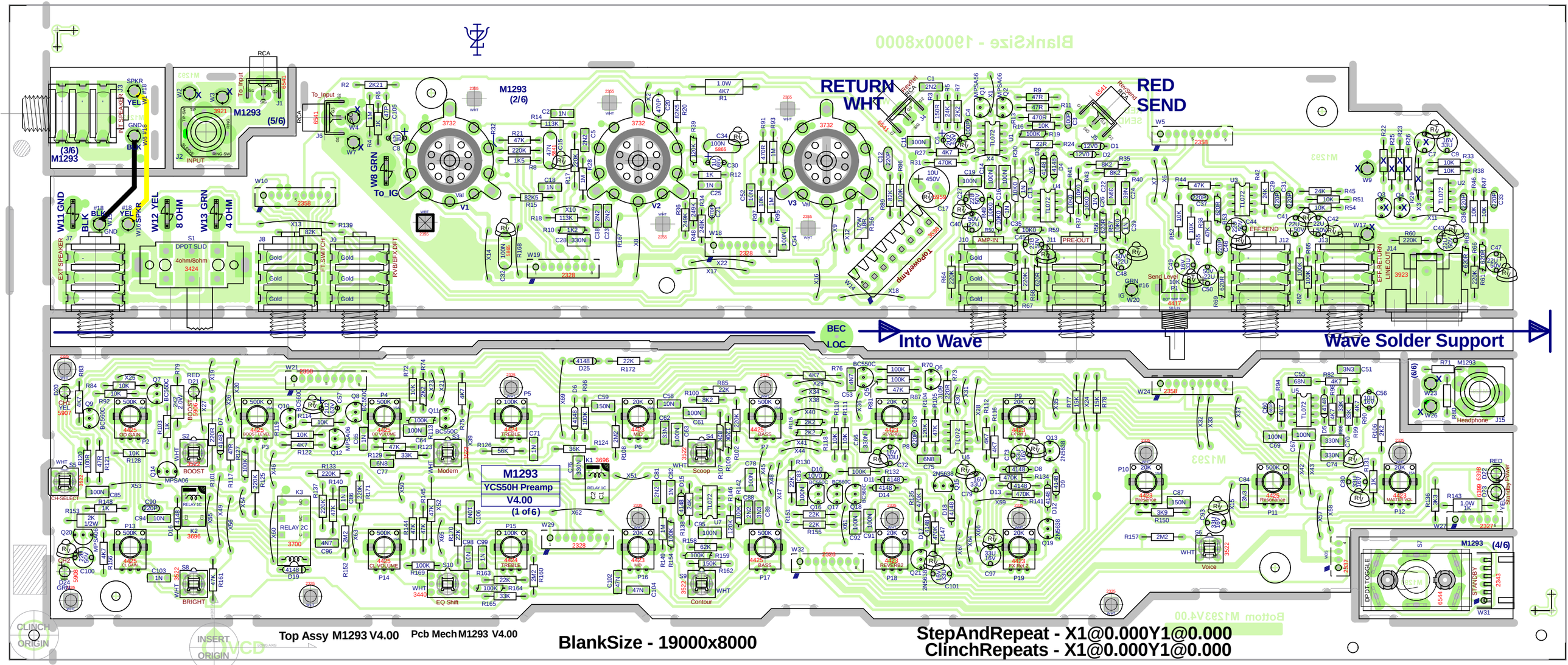
Product YCS50H Preamp

Switching	PCB# M1293	Sheet 3 of 4
Date: Thu May 24, 2012	Rev: v1.00	YsType:
Filename: M1293V04SCH.sch2006		

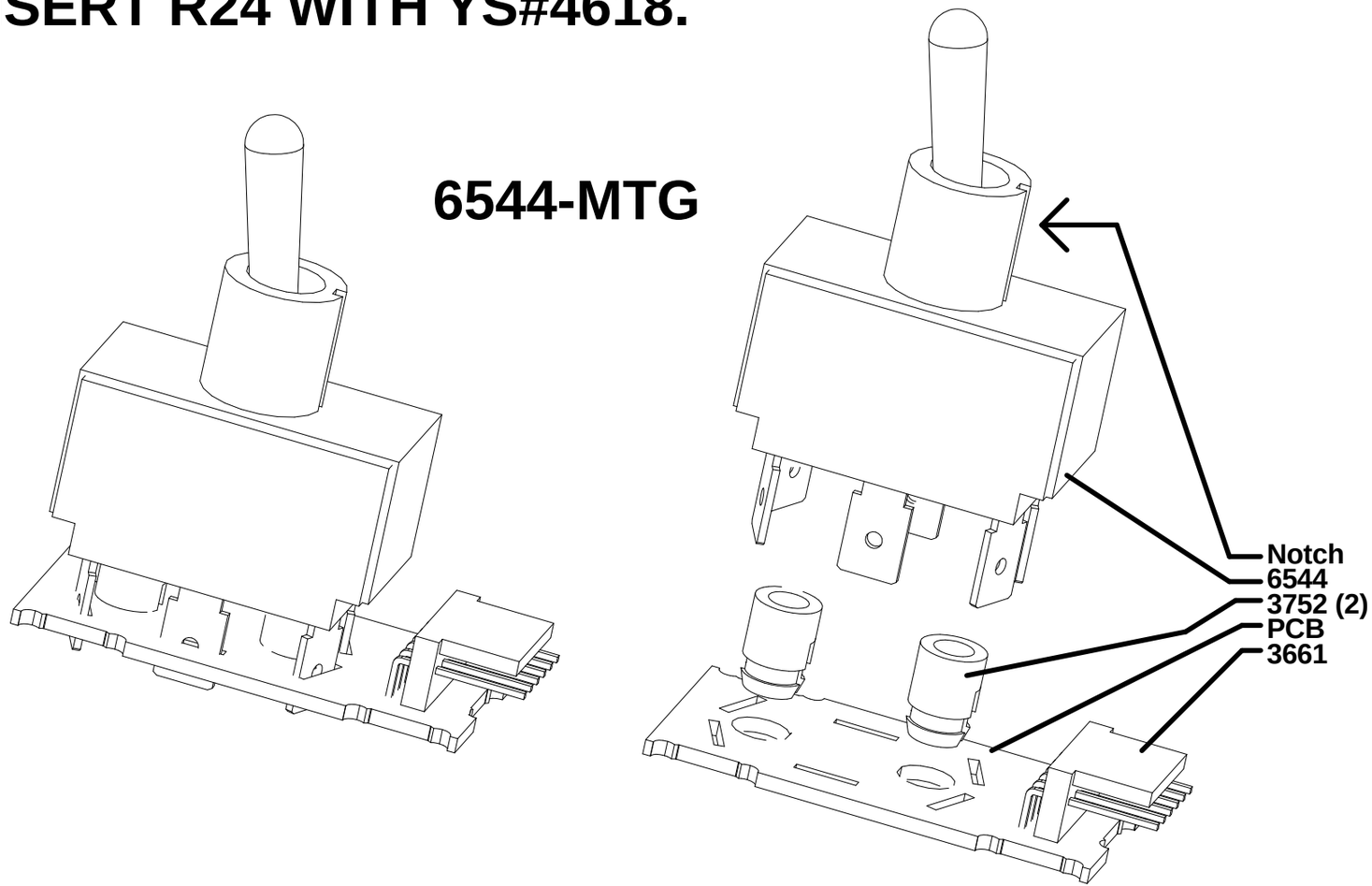

RETURN
WHT
RED
SEND
M1293
(2/6)
M1293
(5/6)
(3/6)
M1293
W8 GRN
To_IG
W11 GND
W12 YEL
8 OHM
W13 GRN
4 OHM
EXT SPEAKER
FT SWITCH
RVBEFX DFT
DPDT SLID
4ohm/8ohm
3424
INPUT
RCA
To_Input
AMP-IN
PRE-OUT
EFF SEND
EFF RETURN
LINE OUT
Send Level
Into Wave
Wave Solder Support
BEC
LOC
M1293
YCS50H Preamp
V4.00
(1 of 6)
Headphone J15
Standby Power
DPDT TOGGLE
STANDBY
Top Assy M1293 V4.00
Pcb Mech M1293 V4.00
BlankSize - 19000x8000
StepAndRepeat - X1@0.000Y1@0.000
ClinchRepeats - X1@0.000Y1@0.000
CLINCH ORIGIN
INSERT ORIGIN
SEE LAYOUT DOCUMENTATION

SEE LAYOUT DIAGRAM

M1293 V4.00 PRODUCTION NOTES

1. DO NOT AUTO INSERT OR HAND INSERT COMPONENTS MARKED WITH "X"
2. DIP #6544 SWITCH IN SOLDER POT BEFORE INSERTION.
3. PCBSA: BREAK OUT BOARD BEFORE TESTING
4. PCBSA: HAND INSERT R24 WITH YS#4618.

6544-MTG



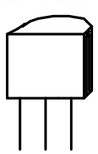
SEE LAYOUT DIAGRAM

M1293 PCB_DATABASE_HISTORY			
MODEL(S):-	YCS50H		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	11/APR/2008	1.00	RELEASED FOR PRODUCTION
2	2008/04/30	2.00	PC#7535 & flipped standby switch.
3	23-SEP-2009	.	PC7865: changes according to PC
4	12-MAR-2010	4.00	PC#8037: CHANGED TO NYLON STANDOFF NUT
5	D	V	CHANGED TO XH STYLE CONNECTORS
6	24-MAY-2012	.	PC8405 - Changed resistor values. - ML
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

M1293 POTLIST				
MODEL(S):-	YCS50H			
REF	FUNCTION	PART#	KNOB	
P1	SEND LEVEL	4417	8431	
P2	OD GAIN	4425	8431	
P3	BOOST LEVEL	4425	8431	
P4	OD VOLUME	4425	8431	
P5	TREBLE	4424	8431	
P6	MID	4423	8431	
P7	BASS	4425	8431	
P8	REVERB1	4423	8431	
P9	FX RET 1	4423	8431	
P10	PRESENCE	4423	8431	
P11	RESONANCE	4425	8431	
P12	MASTER VOLUME	4423	8431	
P13	CL GAIN	4425	8431	
P14	CL VOLUME	4425	8431	
P15	TREBLE	4424	8431	
P16	MID	4423	8431	
P17	BASS	4425	8431	
P18	REVERB2	4423	8431	
P19	FX RET 2	4423	8431	

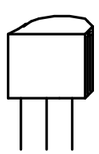
PIN CONFIGURATION

2N5401
2N5551
MPSA06
MPSA13
MPSA43
MPSA56
MPSA63



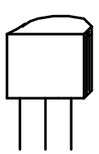
E B C
TO-92

BC550C
BC560C

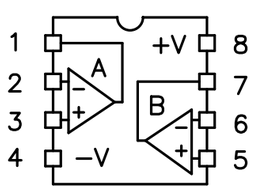


C B E
TO-92

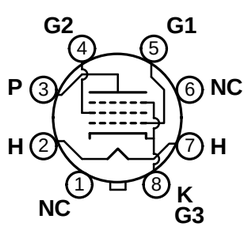
J109
2N5638



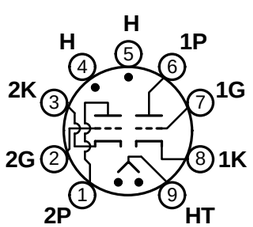
D S G
TO-92



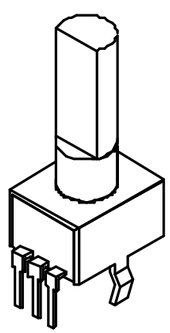
6882_PC



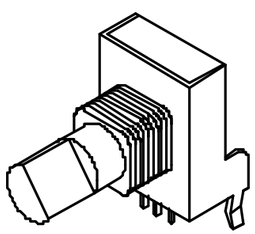
EL34



12AX7A



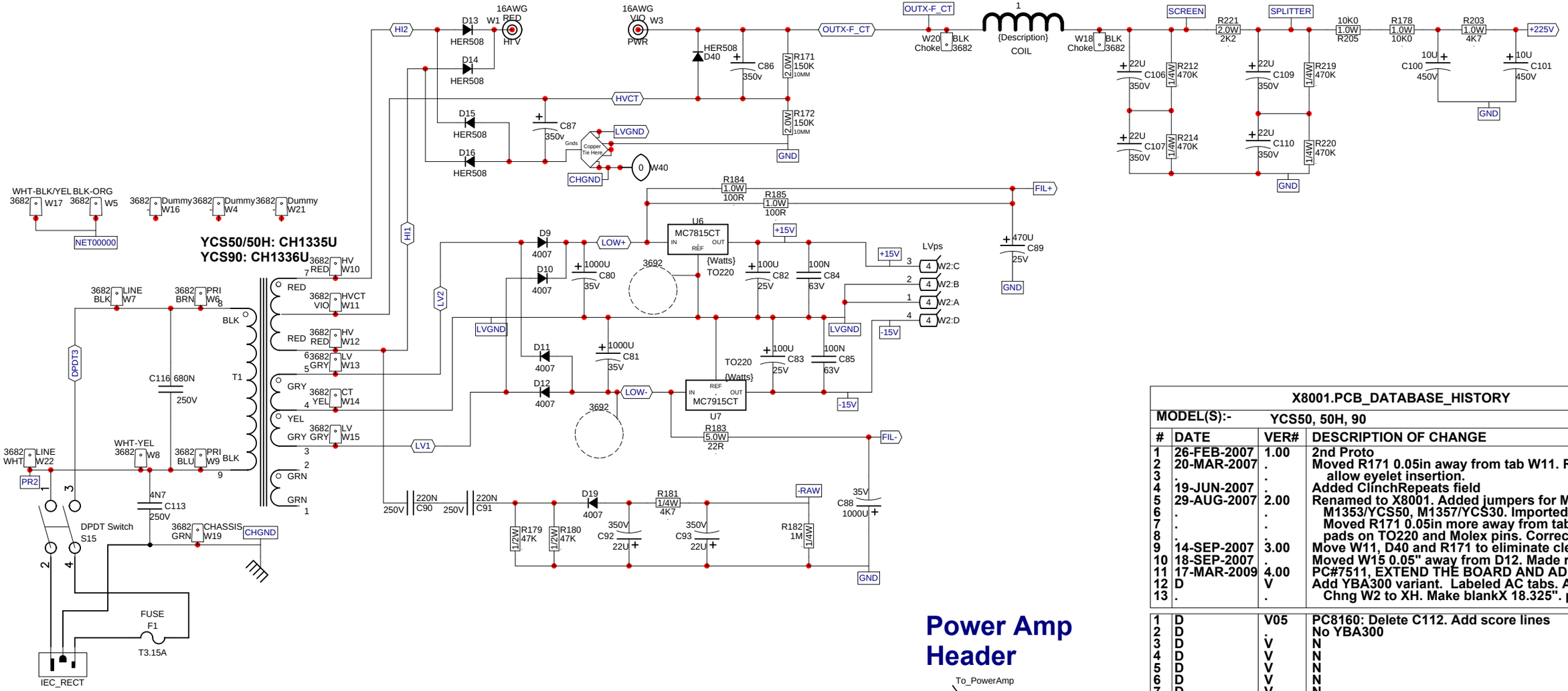
"STYLE_P32"



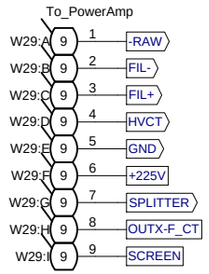
"STYLE_P28"

Variant Parts

	C86 and C87	
PCB#	Value	Part#
M1295	470U	5957
M1353	330U	6574



Power Amp Header



X8001.PCB_DATABASE_HISTORY			
MODEL(S):-	YCS50, 50H, 90		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	26-FEB-2007	1.00	2nd Proto
2	20-MAR-2007	.	Moved R171 0.05in away from tab W11. Rotate C8 to allow eyelet insertion.
3	.	.	
4	19-JUN-2007	.	Added ClinchRepeats field
5	29-AUG-2007	2.00	Renamed to X8001. Added jumpers for M1295/YCS90, M1353/YCS50, M1357/YCS30. Imported fixture nodes.
6	.	.	Moved R171 0.05in more away from tab W11. Updated
7	.	.	pads on TO220 and Molex pins. Corrected X2 span.
8	.	.	
9	14-SEP-2007	3.00	Move W11, D40 and R171 to eliminate clearance errors.
10	18-SEP-2007	.	Moved W15 0.05" away from D12. Made rtvhole clearance 10.
11	17-MAR-2009	4.00	PC#7511, EXTEND THE BOARD AND ADD 5 TABS
12	D	V	Add YBA300 variant. Labeled AC tabs. Add mtg hole EC42.
13	.	.	Chng W2 to XH. Make blankX 18.325". pc#8018

1	D	V05	PC8160: Delete C112. Add score lines GG
2	D	.	No YBA300
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

Yorkville

Product **YCS50/90 Power Supply**

Power Supply	PCB# X8001	Sheet 1 of 1
Date: Thu Sep 15, 2011	Rev:V05	YsType:
Filename: X8001V05sch.sch2002		

BREAK PANEL IN 2 ALONG THIS SCORE LINE BEFORE CLINCHING.

CLINCH ORIGIN

SCORE

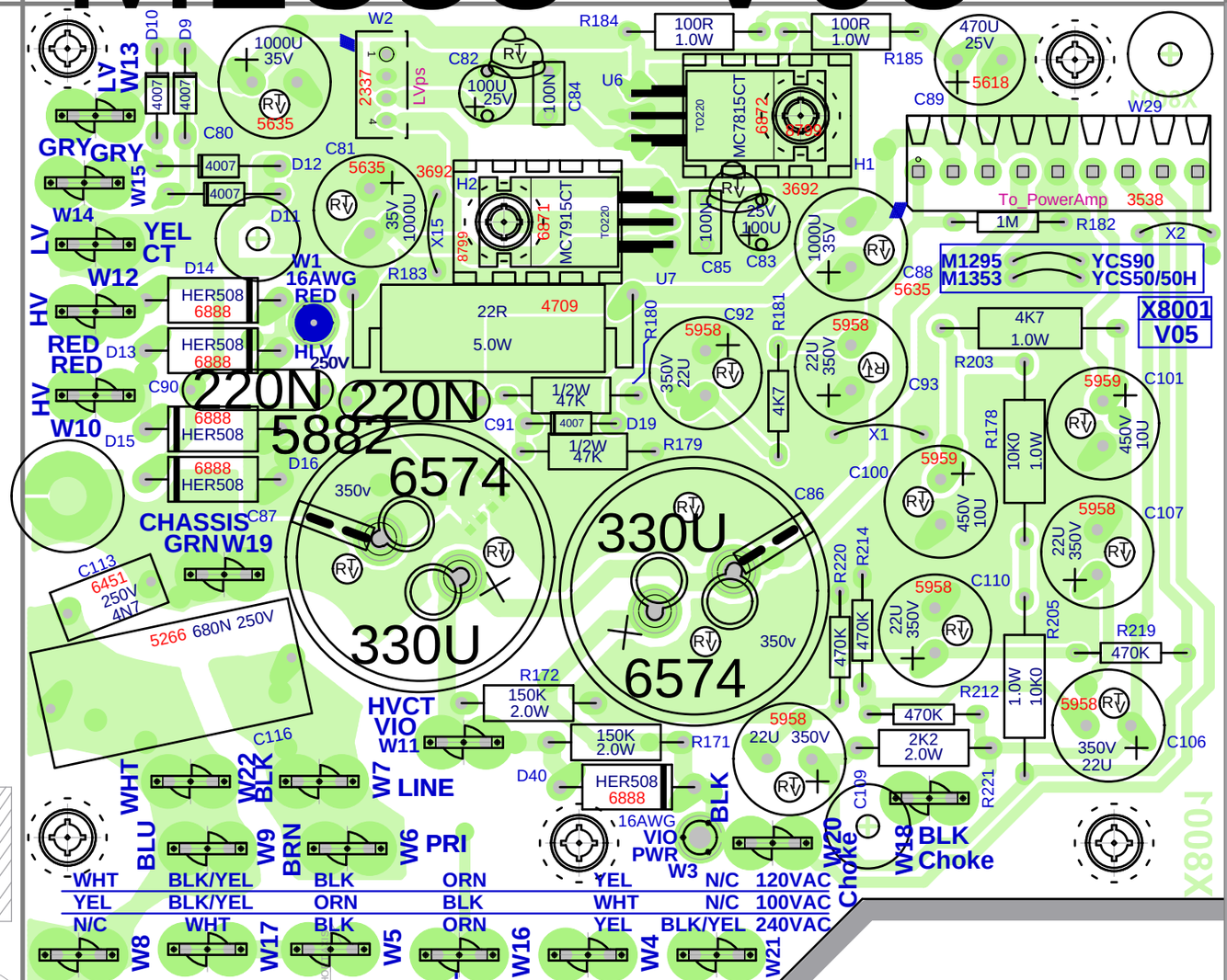
BEC LOC

M1353 V05

StepAndRepeat - X3@5.375Y2@5.400

YCS50/50H

BlankSize - 17000x10800



EYELET LEGEND

- SOCKET
- SOCKET UPSIDE DOWN
- NORMAL
- NORMAL LARGE
- SOCKET WITH DIRECTION
- TAB

SCORE

CLINCH ORIGIN

SCORE

INSERT ORIGIN

LONG AXIS

Pcb Mech X8001V05
Top Assy X8001V05

SCORE

SEE LAYOUT DOCUMENTATION

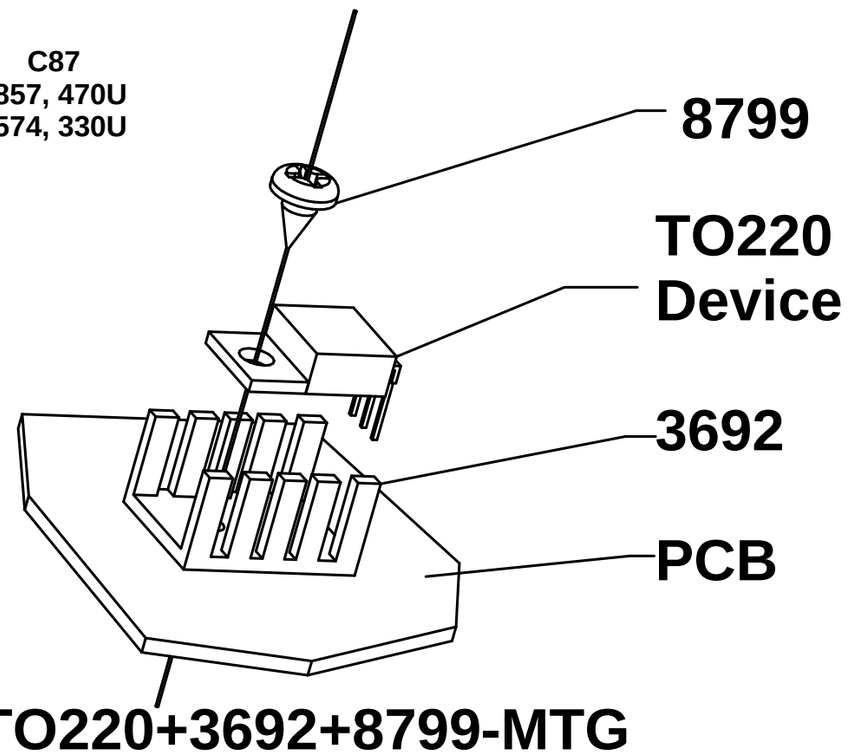
SEE LAYOUT DIAGRAM

X8001.PCB_DATABASE_HISTORY			
MODEL(S):-	YCS50, 50H, 90		
#	DATE	VER#	DESCRIPTION OF CHANGE
1	26-FEB-2007	1.00	2nd Proto
2	20-MAR-2007	.	Moved R171 0.05in away from tab W11. Rotate C8 to
3	.	.	allow eyelet insertion.
4	19-JUN-2007	.	Added ClinchRepeats field
5	29-AUG-2007	2.00	Renamed to X8001. Added jumpers for M1295/YCS90,
6	.	.	M1353/YCS50, M1357/YCS30. Imported fixture nodes.
7	.	.	Moved R171 0.05in more away from tab W11. Updated
8	.	.	pads on TO220 and Molex pins. Corrected X2 span.
9	14-SEP-2007	3.00	Move W11, D40 and R171 to eliminate clearance errors.
10	18-SEP-2007	.	Moved W15 0.05" away from D12. Made rtvhole clearance 10.
11	17-MAR-2009	4.00	PC#7511, EXTEND THE BOARD AND ADD 5 TABS
12	2009/02/17	4.01	Add YBA300 variant. Labeled AC tabs. Add mtg hole EC42.
13	.	.	Chng W2 to XH. Make blankX 18.325". pc#8018
1	D	V05	PC8160: Delete C112. Add score lines GG
2	D	.	No YBA300
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

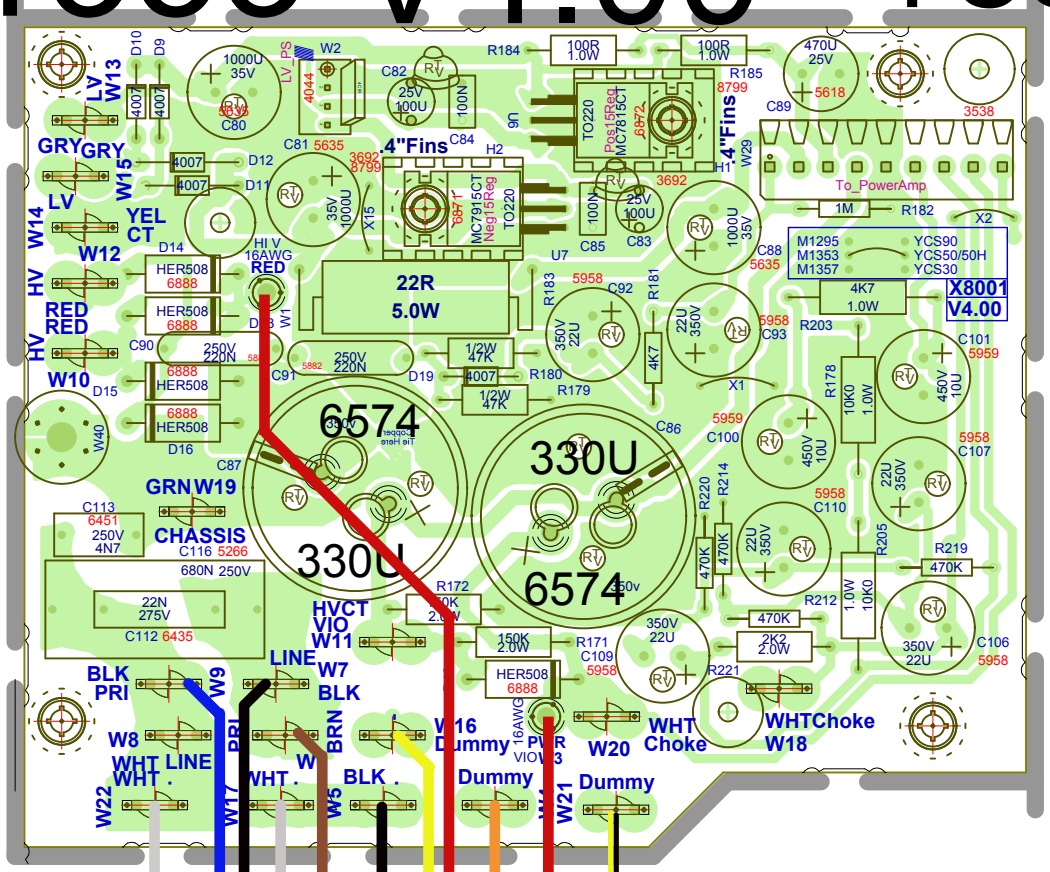
PRODUCTION NOTES X8001(M1295, M1353)

1. BEFORE CLINCHING, BREAK PANEL IN 2 ALONG LINE WHERE INDICATED.
2. B.A. Variant parts:

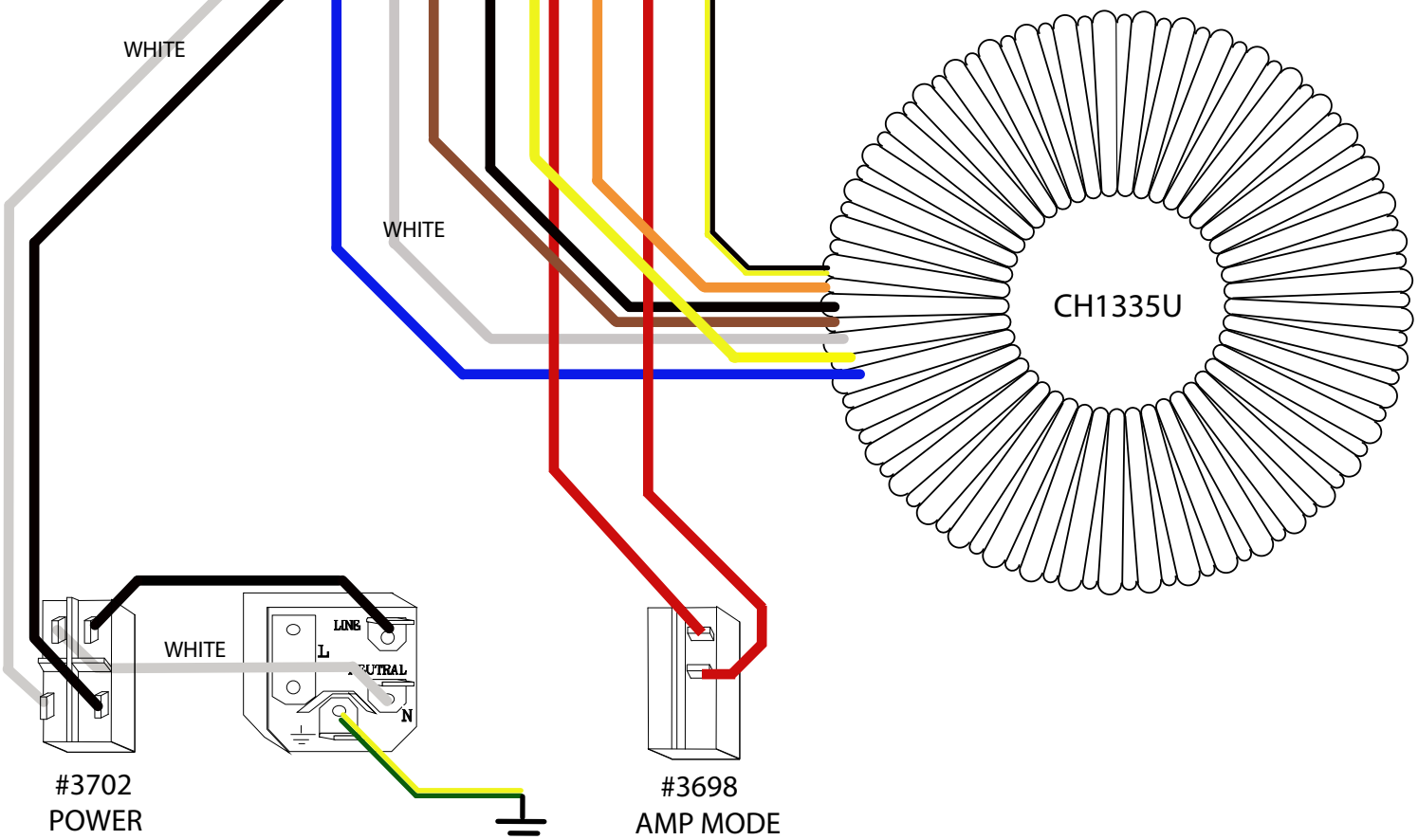
BOARD	C86	C87
M1295	#5857, 470U	#5857, 470U
M1353	#6574, 330U	#6574, 330U



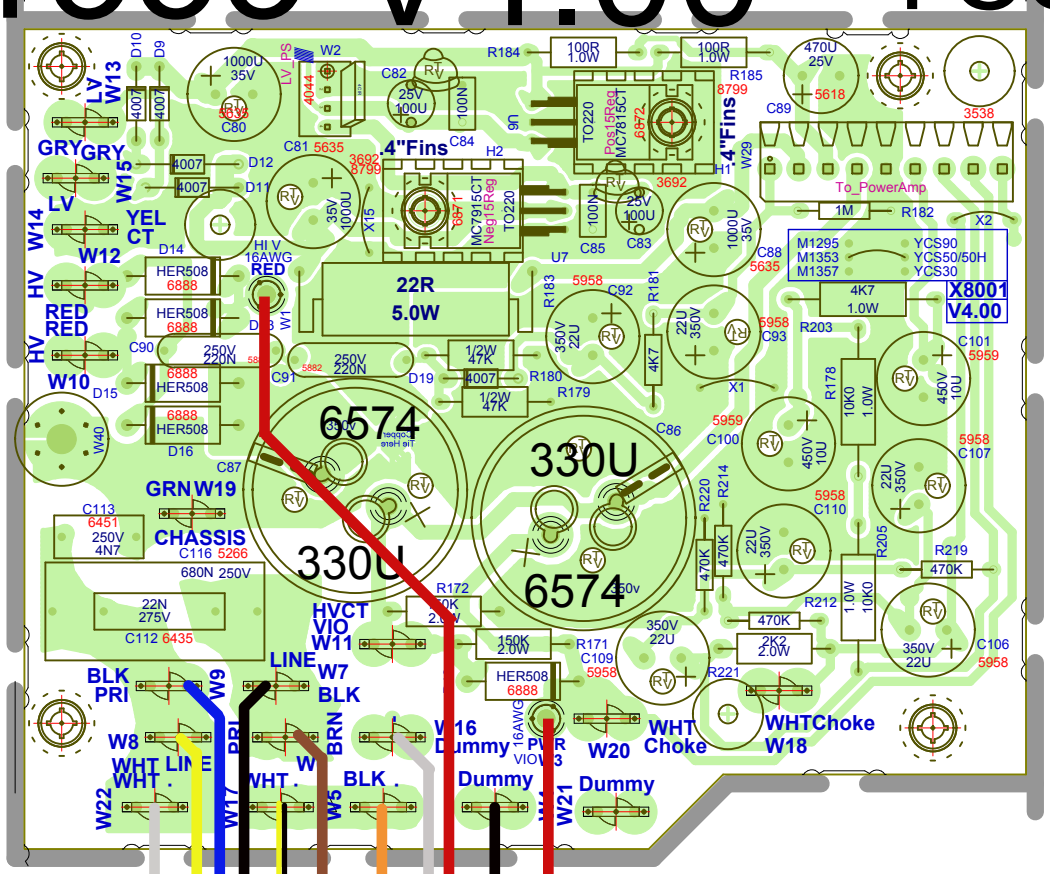
M1353 V4.00 YCS50H



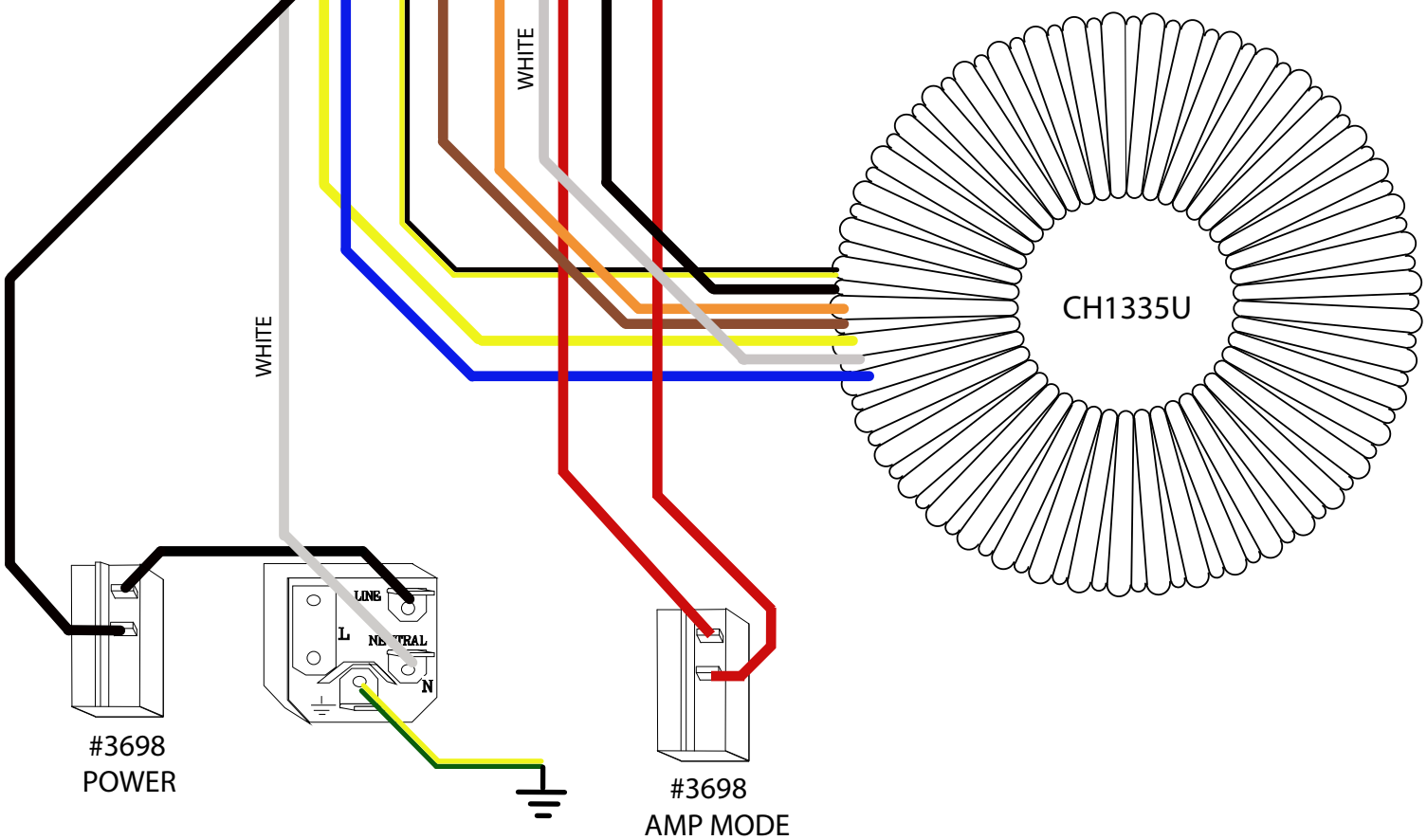
CE WIRING
240 VAC



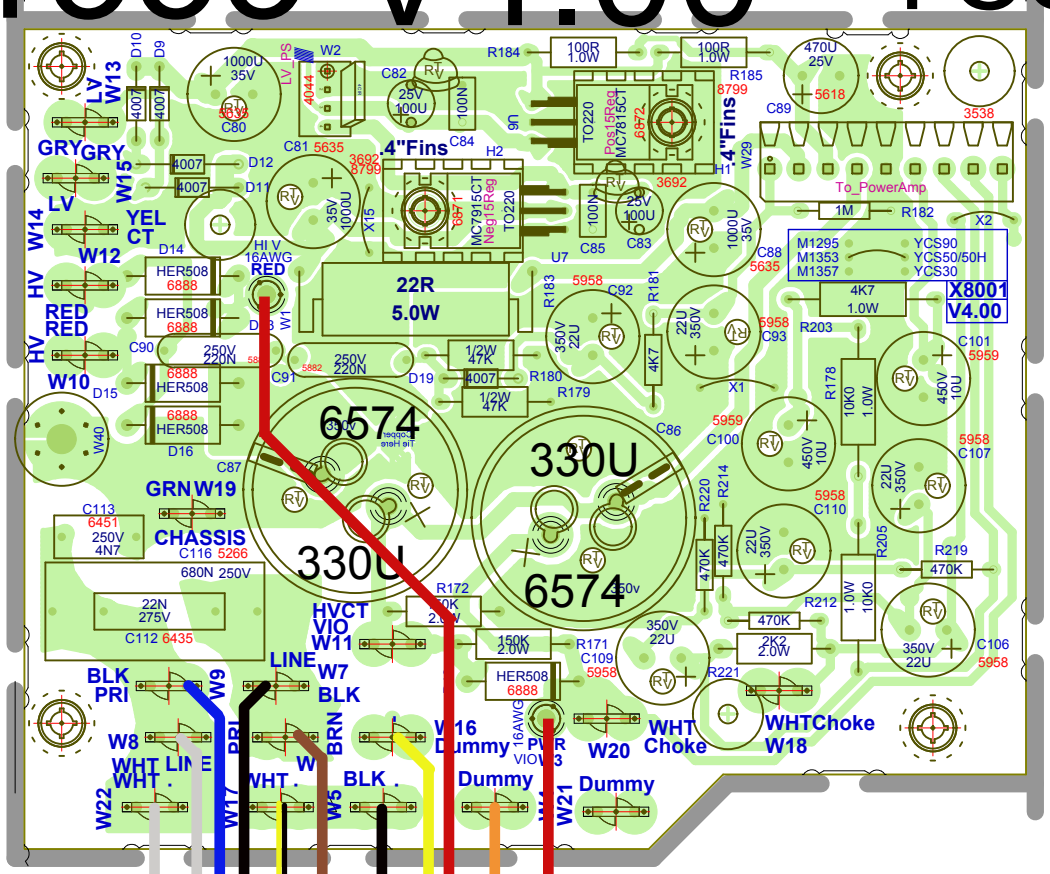
M1353 V4.00 YCS50H



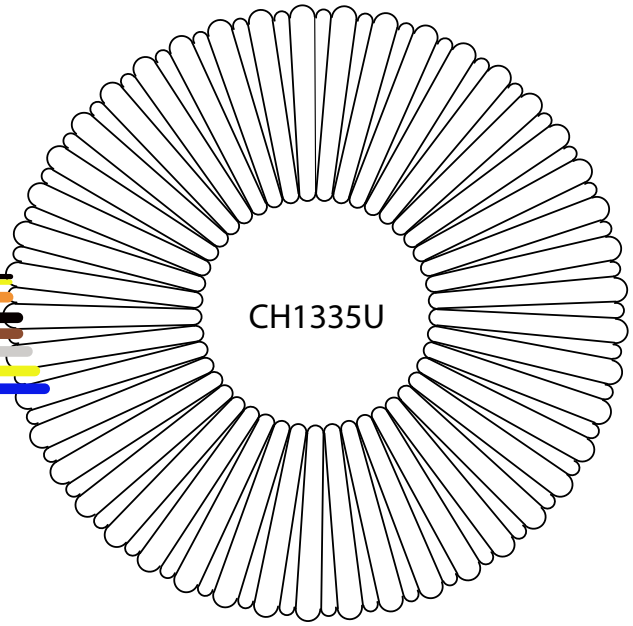
JA WIRING
100 VAC



M1353 V4.00 YCS50H

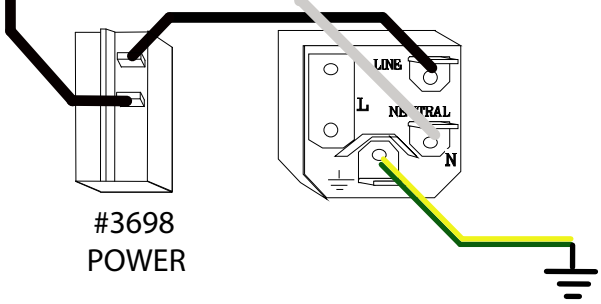


N.A. WIRING
120 VAC



WHITE

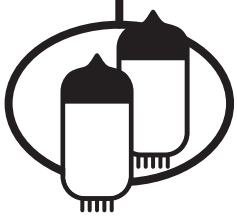
WHITE



#3698
POWER

#3698
AMP MODE

SERVICE BULLETIN

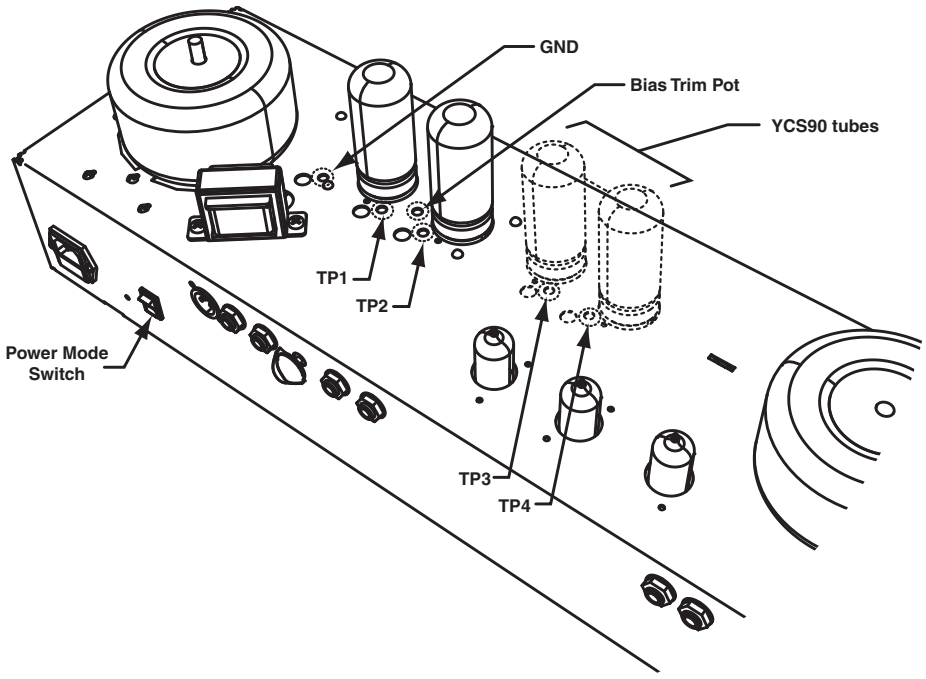


Products Affected
Traynor YCS50,
YCS50H & YCS90

Tube Bias Adjustment

1. Adjust the amplifiers bias when in the 50W mode (YCS50/H) or 90W mode (YCS90). A speaker/load should be connected at all times when amplifier is powered.
2. Turn the amplifier on; allow it to warm up for 2-3 minutes.
3. Once the amplifier is warmed up, make sure the amplifier is out of Standby mode. Do not apply any input stimulus (signals etc.).
4. Using a meter set to measure mV DC, attach the negative (black) probe to the GND. Place the positive (red) probe on TP1
5. Adjust the Bias Trim Pot until you measure 75mv DC between GND and TP1.

   Measure the bias between GND and TP2. It should also measure as 75mv DC. (For the YCS90 the measurements should read 75mV on Tp1, Tp2, TP3 and TP4 which signifies that all tubes are matched).



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L1W-3Y8 CANADA

Yorkville Sound Inc.
4625 Witmer Industrial Estate
Niagara Falls, New York
14305 USA

Printed in Canada

YCS50H Parts List 8/14/2012

YS #	Description	Qty.
6397	JEWELED PILOT LAMP AMBER REG V1	1
5906	RED 3MM LED 1V9 20MA.4SPCER T&R	1
6398	RED 5MM LED 1V5 20MA HIGH EFF	1
6399	YEL 5MM LED 1V5 20MA HIGH EFF	1
5907	YEL 3MM LED 1V9 20MA.4SPCER T&R	1
5908	GRN 3MM LED 1V9 20MA.4SPCER T&R	1
6825	1N4148 75V 0A45 DIODE T&R	18
6888	HER508 1000V 3A0 DIODE ULTRAFAS	5
6438	1N4007 1000V 1A0 DIODE T&R	5
6437	1N5237B 8V2 0W5 ZENER 5% T&R	1
6450	1N5242B 12V0 0W5 ZENER 5% T&R	2
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1
6871	MC7915CT TO220 N 15V0 REG V2	1
6872	MC7815CT TO220 P 15V0 REG V1	1
5101	BC550C TO92 NPN TRAN T&R TB	5
5102	BC560C TO92 PNP TRAN T&R TB	4
5103	MPSA06 TO92 NPN TRAN T&R TA	4
5104	MPSA56 TO92 PNP TRAN T&R TA	1
5108	2N5401 TO92 PNP TRAN T&R TA	1
5119	J111 TO92 NCH JFET T&R TC	4
5122	J109 TO92 NCH JFET T&R TC	1
6882	TL072CP IC FET DUAL OP AMP	7
5408	_47P 100V 10%CAP T&R BEAD NPO	1
5199	100P 100V 2%CAP T&R RAD CER.2NPO	2
5197	220P 100V 2%CAP T&R RAD CER.2NPO	8
5277	220P 200V 5%CAP T&R RAD CER.2NPO	1
5194	470P 1000V 10%CAP T&R RAD CER.2Y5P	2
5201	470P 100V 5%CAP T&R RAD CER.2NPO	1
5816	680P 100V 5%CAP T&R RAD CER.2NPO	1
5206	__1N 400V 5%CAP T&R RAD .2FLM	9
5422	__1N 50V 10%CAP T&R BEAD NPO	4
5208	__2N2 400V 5%CAP T&R RAD .2FLM	6
5275	__3N3 100V 5%CAP T&R RAD .2FLM	3
5209	__4N7 250V 5%CAP T&R RAD .2FLM	2
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1
5272	__6N8 100V 5%CAP T&R RAD .2FLM	2
5204	_10N 100V 10%CAP T&R RAD .2FLM	5
5834	_10N 400V 10%CAP BLK RAD POLY FLM	2
5222	_33N 100V 10%CAP T&R RAD .2FLM	1
5223	_39N 100V 10%CAP T&R RAD .2FLM	2
5224	_47N 100V 10%CAP T&R RAD .2FLM	2
5841	_47N 250V 10%CAP RAD POLYFILM BULK	1
5226	_68N 100V 5%CAP T&R RAD .2FLM	1
5212	100N 63V 5%CAP T&R RAD .2FLM	18
5865	100N 250V 10%CAP BLK RAD POLY FLM	2
5229	150N 63V 10%CAP T&R RAD .2FLM	2
5882	220N 250VDC 10%CAP BLK RAD PLY FLM	2
5233	330N 63V 5%CAP T&R RAD .2FLM	5
5266	680N 250V 20%CAP BLK 'X2' 30MM AC	1
5254	__1U 63V 20%CAP T&R 4X7MM .2EL	2
5257	__2U2 63V 20%CAP T&R RAD .2EL	2
5282	_10U 16V 20%CAP T&R 5X7MM .2NP	1
5629	_10U 160V 20%CAP BLK 10X13MM EL	1
5959	_10U 450V 20%CAP BLK EL	3
5631	_22U 50V 20%CAP T&R 6X7MM .2EL	11
5958	_22U 350V 20%CAP BLK 13X25 EL	6
5961	_33U 16V 20%CAP T&R RAD .2IN NP	9
5267	100U 25V 20%CAP T&R RAD .2EL	2
5879	100U 16V 20%CAP T&R 8X7MM .2EL	1
6574	330U 350V 20%CAP BLK 25X50 EL	2
5618	470U 25V 20%CAP BLK 10X15MM EL	1
5635	1000U 35V 20%CAP BLK RADIAL ELECT	3
4417	_10K 5B LIN 9MM HORIZONTAL P28	1
4423	_20K 15AAUDIO 9MM P32	8
4424	100K 1B LIN 9MM P32	2
4425	500K 15AAUDIO 9MM P32	8
4520	_10K TRIM POT	1
3976	SNAP ON 0.843" INSULATING BUSHING	1
6563	CHOKE:5000UH 100MA	1
8522	RUBBER BUMPER WITH WASHER -SMALL-	4
8570	CORNER,2 LEGS NOTCED BLACK POWDER C	8
3467	CLIP 205X032 14-16AWG DISC/INSUL	2
3478	CLIP 205/187X032 18-22AWG DISCO/INS	3
3489	CLIP 250X032 18-22AWG DISCO/INSL	4
3601	RING TERMINAL 16AWG WIRE & #8 SCREW	1
3450	1/4" JCK PCB MT ALL-GOLD SKT	3
3498	1/4" JCK PCB MT HORZ	5
3921	1/4" JCK PCB MT VERT STER RT SWT	1
3888	12"RCA SINGLE CABLE 0'/90' BLACK	1
3890	36"RCA DUAL CABLE 0'/90' RED/WHITE	1

YS #	Description	Qty.
6541	RCA JACK SNGL PCB MT HOR K901	4
3923	XLR MALE PCB MT HORZ MTHOLE-V SNAP	1
3451	EYELET SMALL 0.089 OD PLATED	19
TFS-2B	TRAYNOR DUAL FOOTSWCH 10' CORD-BULK	1
2472	T3,15A GDA BUSSMANN 5X20MM FUSE	1
8451	10" STRAP HANDLE,BLACK METAL ENDCAP	1
3692	HEATSINK TO-220 W/O TAB BLK ANODIZE	2
8889	RUBBER GROMMET #2183-034-BLK	4
3438	PWR INLET & FUSE DRAWER	1
3803	NYLON SECUR-A-TACH MINI PLASTIC TIE	1
3810	4" NYLON CABLE TIE	8
3538	24 PIN BREAKAWAY LOCK .156	1.152
8430	KNOB, CHICKEN BEAK, BLACK, POINTER	18
8438	YCS SERIES B-BEAK KNOB 180 DEG	1
8633	KNOB ROUND PUSHBUTTON 1/4" BLACK	8
3428	8' 3/18 SJT AC LINE CORD REMOVABLE	1
8269	TRAYNOR LOGO PLASTIC W/ BLK INSERT	1
8800	6-32 KEPS NUT ZINC	1
9931	6-32 NYLON INSERT LOCK NUT	4
8604	10-32 T NUT	2
8683	1/4-20 NYLON INSERT NUT ZINC	1
8890	1/4-20 CAGE NUT C79-88142027	8
9977	5/16-18 NYLON INSERT LOK NUT ZN CLR	1
8797	5/16-18 KEPS NUT JS500	2
4599	22AWG SOLID SC WIR T&R JMP	77
4703	2.0W 2R 5% T&R RES	2
4612	1/2W 18R 5% T&R RES	1
4618	1/2W 22R 5% T&R RES	1
4709	5.0W 22R 5% BLK RES	1
4817	1/4W 47R 5% T&R RES	4
2019	1/8W 100R0 1%FLAME PROOF T&R RES	2
4735	1.0W 100R 5% T&R RES	2
4852	1/4W 100R 5% T&R RES	1
4859	1/4W 150R 5% T&R RES	1
4857	1/4W 220R 5% T&R RES	2
4821	1/4W 470R 5% T&R RES	2
5019	1/4W 620R 5%MINI T&R RES	6
4822	1/4W 820R 5% T&R RES	3
4823	1/4W 1K 5% T&R RES	5
4913	1.0W 1K 5% T&R RES	1
4585	1/4W 1K2 5%MINI T&R RES	1
4824	1/4W 1K5 5% T&R RES	1
5005	2.0W 1K8 5% T&R RES	2
4631	1/2W 2K 5% T&R RES	1
4705	2.0W 2K2 5% T&R RES	2
4847	1/4W 2K2 5% T&R RES	2
6104	1/4W 2K2 5%MINI T&R RES	3
4714	1/4W 2K21 1% T&R RES	1
4826	1/4W 3K3 5% T&R RES	1
4850	1/4W 3K9 5% T&R RES	1
4681	1.0W 4K7 5% T&R RES	2
4827	1/4W 4K7 5% T&R RES	13
4863	1/4W 8K2 5% T&R RES	3
4829	1/4W 10K 5% T&R RES	19
5031	1.0W 10K0 5% T&R RES	2
6116	1/4W 10K0 1%MINI MF T&R RES	8
4830	1/4W 15K 5% T&R RES	2
4831	1/4W 18K 5% T&R RES	1
4832	1/4W 22K 5% T&R RES	7
4902	1/4W 24K 5% T&R RES	4
4840	1/4W 33K 5% T&R RES	5
4868	1/4W 36K 5% T&R RES	1
4634	1/2W 47K 5% T&R RES	2
4834	1/4W 47K 5% T&R RES	11
4835	1/4W 56K 5% T&R RES	1
4848	1/4W 62K 5% T&R RES	1
4586	1/4W 82K 5%MINI T&R RES	1
4837	1/4W 82K 5% T&R RES	2
4772	1/4W 82K5 1% T&R RES	2
4838	1/4W 100K 5% T&R RES	8
6120	1/4W 100K 5%MINI T&R RES	7
4776	1/4W 113K 1% T&R RES	2
4851	1/4W 120K 5% T&R RES	2
4976	1/4W 120K 5% MINI T&R RES	2
4790	2.0W 150K 5%10MM BODY T&R RES	2
4839	1/4W 150K 5% T&R RES	1
4841	1/4W 220K 5% T&R RES	13
6145	1/4W 249K 1%MINI T&R RES	5
4843	1/4W 470K 5% T&R RES	9
4844	1/4W 1M 5% T&R RES	6

YS #	Description	Qty.
4845	1/4W 2M2 5% T&R RES	4
6615	13.0" 8C-22AWG RIBBON CABLE .156"	1
6616	_6.0" 9C-22AWG RIBBON CABLE .156"	1
3696	RELAY 1C 02AMP DC24 006MA PC-S	2
3700	RELAY 2C 01AMP DC24 015MA PC-S	1
3537	ACC# 4EB3C1B LONG REVERB	1
8842	#4 X 5/16 PAN QUAD TYPE A JS500 BLK	2
8799	#6 X 1/4 PAN PH TYPE B JS500	2
8755	#6 X 5/8 PAN QUAD TY A JS500 BLACK	4
8753	#10 X 1/2 PAN QUAD TY A JS500 BLACK	16
8756	#10 X 3/4 PAN PH TYPE A BLACK OXIDE	4
8727	#10 X 1" PAN PH TYPE A JS500 BLACK	4
8871	4-40 X 5/8 PAN PH MS JS500	6
8808	4-40 X 3/4 FLAT PHIL MS B.O.& WAX	11
8822	6-32 X 1/4 PAN PH MS ZN C/W SPLIT_W	5
8832	6-32 X 1/4 PAN PH TAPTITE JS500	17
8801	6-32 X 3/8 PAN PH TAPTITE JS500	2
8829	6-32 X 3/8 FLAT PH TAPTITE BO#C HEA	19
8828	6-32 X 3/4 PAN PH TAPTITE JS500	4
8809	10-32 X 1/4 PAN PH TAPTITE JS500	2
8843	10-32 X 1 1/8 FLAT QUAD MS JS500	2
8926	5/16-18X3 CARRIAGE BOLT ZINC	2
8770	1/4-20 X 1 5/16 TRUSS PH MS JS500	8
3752	SNAP IN 1/4 SPACER RICHCO	2
3833	8 X 3/8 (250 OD,.171 ID)NY SPACER	4
2355	NYLON STANDOFF NUT #4 375MIL	6
2335	NYLON STANDOFF NUT #4 500MIL	11
8657	6-32 X 3/8" HEX SPACER ALUMINUM	6
3865	1/2 PLASTIC HEX SPACER #6	11
8482	3/8 1D FLAT WASHER	1
8488	3/8 INT TOOTH LOCKWASHE ZINC	1
8818	3/4 OD X 3/8 ID X .080 THICK WASHER	4
8817	#10 FLAT WASHER FOR 3/16" BOLT	12
3440	4PDT MINI VERT ALT SWITCH	1
3424	DPDT SLID SW PCMT H GOLD CONTACTS	1
3522	DPDT MINI PC VERT SNP ALT	7
6544	DPDT TOGGLE SW QUICK .250" 6 TERM	1
3554	DPST TOGGLE SW QUICK .250" 4 TERM	1
3698	SPST ROKR SW QUIK 180" AC PWR BL/BL	1
12AX7BLK	12AX7 DUAL TRIODE PREAMP TUBE	3
EL34BULK	EL34 PENTODE OUTPUT TUBE	2
3732	9 PIN PC MOUNT TUBE SOCKET BE	3
3984	8 PIN PC MOUNT TUBE SOCKET BE	2
3731	TUBE RETAINER	2
1403	YCS100H TOROID COVER VR 122 X 65	2
CH1335M	XFMR:OPT YCS50/50H	1
CH1335U	XFMR:YCS50/50H	1